Index of Claims

Rejected

Allowed

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/697,618              | O'NEIL ET AL.                           |
| Examiner                | Art Unit                                |

(Through numeral)
Cancelled

Restricted

Non-Elected
I Interference

Rodney G. McDonald

A Appeal
O Objected

1753

|             |  | Ľ            | Ĺ | \IIC     |          | -u           |  |          | Ŀ        |              |     |       | #5U1  |        |
|-------------|--|--------------|---|----------|----------|--------------|--|----------|----------|--------------|-----|-------|---|--------|
| Cla         | aim                                    | _            |   |          |          | Dat          | e  |          |          |              | 7   | Ci    | aim   | Т      |
| Final       | Original                               | 5/16         | , |          |          |              |  |          |          |              |     | Final | Original  | 3      |
|             | 1                                      |              |   |          |          |              |  |          |          |              | 1   |       | 51  |        |
| <u></u>     | 3                                      | 1            |   | <u> </u> | L        | ┺            | ļ.,  | _        | 1        | _            | ļ   |       | \$1<br>52<br>53<br>54<br>55<br>56<br>57<br>58<br>59<br>60 |        |
|             | 3                                      | Ц            | _ | ļ        | ┺        | 4            | ┞.   | _        | ┡        | ↓            |     |       | 43  | ╀      |
|             | 5                                      | Н            | L | ╁        | ⊬        | -            | ╄  | ╄        | ╄        | ├            | ┨   |       | 54  | ↓_     |
| -           |  | ╫            | _ | ├        | ╌        | ╫            | ╂  | -        | ╀        | ╁            | -   |       | 132   | ╀      |
| <del></del> | <u>6</u><br>7                          | ╁            | _ | ╁        | -        | +            | ╁  | ╁        | ╁        | ┢            | -   |       | 30  | ╀      |
| -           | 8                                      | +            | - | ╁        | 1        | ╁            | ╁  | ┼        | ╁        | $\vdash$     | ┨   |       | 36  | ╀      |
|             | 9                                      | Н            |   | ╁        | -        | ╁╌           | +  | ╁        | $\vdash$ | ╁╌           | 1   |       | 1 36  | ╁      |
|             | 10                                     | 1            |   | 一        | 1        | +-           | +  | T        | ╁╌       | $\vdash$     | 1   |       | Tab   | ╁      |
|             | 11                                     | V            |   | 1        | 1        | 1            | t  | 十        | t        | ┢            | 1   |       | 6   | ╁      |
|             | 12                                     | 7            |   | 1        | T        | T            | T  | T        | t        | T            | 1   | 1     | 61<br>62<br>63<br>64                                      | ✝      |
|             | 12<br>13                               | T            |   |          |          |              | 1  |          |          | İ            | 1   |       | 6B  | T      |
|             | 14                                     | 上            |   |          |          |              | Т  | Г        |          |              | 1   |       | 64  | $\top$ |
|             | 15<br>16<br>17                         |              |   |          |          |              |  |          |          |              | 1   |       | 65<br>66  | Т      |
|             | 16                                     | ı            |   |          |          |              |  |          |          |              | ] _ |       | 666   | Γ      |
|             | 17                                     | Ш            |   |          |          |              |  |          |          |              | ] ~ |       | 67  |        |
| <u></u>     | 18                                     | Ш            |   | <u> </u> |          | <u> </u>     |  | _        | ļ        | <u> </u>     | ]   |       | 68  | 1      |
|             | 19                                     | Ш            |   | L        | <u> </u> | L            |  |          |          |              | 1   |       | 69  | Ш      |
|             | 20                                     | Ш            |   | <u> </u> | _        | <u> </u>     | <u> </u>   |          | L        | _            | ]   |       | 70  | Щ      |
| ļ           | 21                                     |              |   | ļ        | <u> </u> | <u> </u>     | <u> </u>   | _        | ┡        |              |     |       | 71  | 1      |
| <u> </u>    | 22                                     | Щ            |   | <u> </u> | <u> </u> |              | ├  | <u> </u> | ┡        | <u> </u>     |     |       | 72  | 4      |
| -           | 23                                     | $\mathbb{H}$ | _ | ⊢        | ⊢        | ┼            | ⊢  | <u> </u> | ├-       | <u> </u>     | ł   |       | 73  | Ц      |
| -           | 24<br>25                               | Ж            |   | -        | ⊢        | -            | ⊢  | ┝        | ▙        | _            | ł   |       | 74  | Н      |
| <u> </u>    | 25                                     | Н            |   |          | ⊢        | ├            |  | -        | ├        |              | 1   |       | 75<br>76  | H      |
| $\vdash$    | 26<br>27                               | Н            |   | $\vdash$ | ⊢        |              | $\vdash$   | $\vdash$ |          | ╁            | 1   |       | 77  | H      |
| <b>—</b>    | 28                                     | H            |   | <u> </u> | -        | +-           | $\vdash$   | -        | ╁        | ┝            |     |       | 78  | ╫      |
|             | 29                                     | H            |   |          | _        | 1            | <del>                                     </del>   | -        | $\vdash$ |              | 1   |       | 79  | H      |
|             | 29<br>30                               | H            |   |          |          |              | T  |          | <u> </u> | 1            | 1   |       | 80  | H      |
|             | 31                                     | $\mathbf{T}$ |   |          |          |              |  |          | İ        |              | 1   |       | 81  | Ħ      |
|             | 32<br>33                               |              |   |          |          |              |  |          |          |              |     |       | 82  | Т      |
|             | 33                                     |              |   |          |          |              |  |          |          |              |     |       | 83  | Π      |
| <u></u>     | 34                                     | $\perp$      |   | L        |          |              |  |          |          |              | ]   |       | 84  |        |
| $\vdash$    | 35                                     | Ш            | _ | _        |          | _            |  |          | _        | _            |     |       | 85  | L      |
|             | 36                                     | $\bot A$     | _ |          | _        | <u> </u>     | _  | <u> </u> | _        |              |     |       | 86  | _      |
| -           |  | V            | · |          |          | -            | <u> </u>   | _        | <u> </u> | <u> </u>     |     |       | 87  | L      |
|             | 38                                     |              |   |          |          | -            |  | <u> </u> | ⊢        | _            |     |       | 88  | ┝      |
|             | 3 <del>9</del><br>40                   |              | _ | -        |          | ┝            |  |          | $\vdash$ | ├-           |     |       | 89<br>90  | H      |
| -           | 4                                      | $\dashv$     | _ | $\vdash$ | -        | <del> </del> | $\vdash$   |          | <u> </u> | <del> </del> | 1   |       | 91  | _      |
|             | 46                                     | $\dashv$     |   |          | -        |              | _  | $\vdash$ |          | $\vdash$     |     |       | 92  | -      |
|             | 48                                     |              |   |          | $\vdash$ |              |  | $\vdash$ |          | _            |     |       | 93  | H      |
|             | 44                                     | 寸            |   |          |          |              | $\vdash$   |          |          |              |     |       | 94  | H      |
|             | 41<br>42<br>43<br>44<br>45<br>45<br>47 |              |   |          |          |              |  |          |          |              |     |       | 95  |        |
|             | 46                                     |              |   |          |          |              |  |          |          |              |     |       | 96  |        |
|             | 47                                     |              |   |          |          |              |  |          |          |              |     |       | 97  |        |
| $\Box$      | 48                                     | [            |   | $\Box$   |          |              | Щ  |          | $\Box$   |              |     |       | 98  |        |
| $\Box$      | 48<br>49<br>50                         |              |   | Ш        |          | <u> </u>     | _  | _        | ldash    |              |     |       | 99  | _      |
|             | 5 <b>p</b>                             |              |   | لبا      |          | <u>L</u>     | $ldsymbol{ld}}}}}}$ |          |          |              | ll  |       | 100   |        |

| Ci           | Claim  |              |          | Date         |              |          |              |                |  |  |  |  |  |
|--------------|--|--------------|----------|--------------|--------------|----------|--------------|----------------|--|--|--|--|--|
| 1 018        | Cialm  |              |          | Date         |              |          |              |                |  |  |  |  |  |
| Final        | Original   | 516          |          |              |              |          |              |                |  |  |  |  |  |
| -            |  | -            |          | -            |              | -        | -            | ┝              | +  |  |  |  |  |
| -            | 42   | <del> </del> |          |              | -            | ╁        | ╁            | $\vdash$       | $\vdash$   |  |  |  |  |
|              | 42   |              | -        | ┝            | <u> </u>     | 1        | $\vdash$     | ┢┈             | ╁╌   | $\vdash$   |  |  |  |
|              | 4  | ┢            | -        | ├─           | ┢            |          | ┢            | $\vdash$       | ├  | $\vdash$   |  |  |  |
| -            | <del>  </del>  | ╁            |          |              | $\vdash$     | +        | -            | ┢              | ╁  | ┢  |  |  |  |
| -            | 1  | ┼            |          | $\vdash$     | ├            | ╁        | -            | ⊢              | ╁  | ┢  |  |  |  |
| <b>-</b>     | 30   | ╁            |          | ├—           | ⊢            | ╌        | -            | ├              | ╁  | ┢  |  |  |  |
|              | 136  | $\vdash$     | _        | ┝            | ├            | ╁        | <u> </u>     | <u> </u>       | ╁  | ├  |  |  |  |
|              | <del>  36</del>  | ⊢            |          |              | -            | $\vdash$ |              | ┢              | ╁  | ⊢  |  |  |  |
| <u> </u>     | Sh.  | -            |          | -            | <del> </del> | ┢        | ⊢            | <del> </del>   | <del> </del> —                                   | -  |  |  |  |
|              | 64   | -            |          | -            |              | ╁        | ┢┈           | -              | ┼  | ⊢  |  |  |  |
| -            | 66   | H            |          |              | -            | ┢        |              | ⊢              | ╁  | <del> </del>                                     |  |  |  |
| -            | 66   | $\vdash$     | <u> </u> | <del> </del> | ⊢            | Ͱ        | $\vdash$     | $\vdash$       | -  | ╁  |  |  |  |
| -            | #1 #2 #3 #3 #4 #5 #5 #5 #5 #5 #5 #5 #6 #5 #6 #6 #6 #6 #6 #6 #6 #6 #6 #6 #6 #6 #6 | +-           | -        | -            | ├            |          | <del> </del> | -              | 1  | $\vdash$   |  |  |  |
| -            | G#   | $\vdash$     |          | -            | $\vdash$     | $\vdash$ |              | $\vdash$       | <del> </del>                                     | <del> </del>                                     |  |  |  |
| <u> </u>     | ap<br>ab   | ├            |          | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$     | -              | ├  | ⊢  |  |  |  |
| 4-           | 67   |              | <u> </u> | -            | $\vdash$     | -        | $\vdash$     | $\vdash$       | $\vdash$   |  |  |  |  |
| -            | 60   | -            |          | $\vdash$     | -            | -        | <del> </del> | -              | ⊢  | -  |  |  |  |
| <u> </u>     | 60   | 1            |          | <u> </u>     | ├-           | ₩        | $\vdash$     | $\vdash$       | ⊢  |  |  |  |  |
| $\vdash$     | 69<br>70   | #            |          | -            | $\vdash$     | $\vdash$ | -            | ├              | $\vdash$   |  |  |  |  |
|              | 70   | 1            |          |              | _            | ₩        | <u> </u>     | ⊢              | <del> </del>                                     | $\vdash$   |  |  |  |
|              | 71   | 1            |          | <u> </u>     | <u> </u>     | <u> </u> |              | <del>  _</del> | ├_   | <u> </u>   |  |  |  |
| -            | 72   | 1            |          |              | <u> </u>     | <u> </u> |              | <u> </u>       | ╙  | <u> </u>   |  |  |  |
| -            | /3   | 4            |          |              | <u> </u>     |          |              |                | <u> </u>   | <u> </u>   |  |  |  |
|              | 73<br>74<br>75   | Ш            |          |              | <u> </u>     |          |              |                | <u> </u>   | <u> </u>   |  |  |  |
| -            | 75   | Н            |          |              |              |          | -            | _              | -  | _  |  |  |  |
| -            | 76<br>77   | H            |          |              |              | ┢        |              | _              |  |  |  |  |  |
| <del> </del> | 79   | Н            |          | _            | _            | H        | $\vdash$     | $\vdash$       | <del> </del>                                     |  |  |  |  |
|              | 78<br>79   | Н            | -        |              |              | -        |              | -              | 1  |  |  |  |  |
|              | 80   | ╂┤           | -        |              |              |          | ├            | ┝              | $\vdash$   |  |  |  |  |
|              | 81   | H            | $\dashv$ |              | -            |          | $\vdash$     |                | $\vdash$   | $\vdash$   |  |  |  |
| $\vdash$     | 81<br>82   | H            | $\dashv$ |              | -            | $\vdash$ | -            | -              | $\vdash$   | Н  |  |  |  |
| $\vdash$     | 83   | ╫┦           |          |              |              | Н        | H            | -              | <del>                                     </del> | <del>                                     </del> |  |  |  |
|              | 84   |              |          |              |              | Т        |              |                |  |  |  |  |  |
|              | 84<br>85   |              | $\neg$   | _            | _            |          |              |                |  | $\vdash$   |  |  |  |
|              | 86   |              | -        |              |              |          | -            | _              | $\vdash$   |  |  |  |  |
|              | 87   | $\Box$       | $\neg$   |              | _            |          |              |                |  |  |  |  |  |
|              | 88   | П            |          |              |              |          |              |                |  | П  |  |  |  |
|              | 89   |              |          |              |              |          |              |                |  | П  |  |  |  |
|              | 90   | $\Box$       |          | _            | _            | П        |              |                |  |  |  |  |  |
|              | 91   | $\Box$       |          |              |              | П        |              |                |  |  |  |  |  |
|              | 92   |              |          |              |              |          |              |                |  | П  |  |  |  |
|              | 93   |              | $\neg$   |              |              |          |              |                |  |  |  |  |  |
|              | 94   |              |          | $\Box$       |              | П        |              |                |  |  |  |  |  |
|              | 95   |              | $\neg$   |              |              | М        |              |                |  |  |  |  |  |
|              | 96   |              | $\neg$   | _            | -            | П        |              |                |  |  |  |  |  |
|              | 97   |              |          |              |              | Н        |              |                |  |  |  |  |  |
|              | 98   |              | ヿ        | $\exists$    |              |          |              |                |  |  |  |  |  |
|              | 99   |              |          |              |              |          |              |                |  |  |  |  |  |
|              | 100  |              |          |              |              |          |              |                |  |  |  |  |  |
|              |  |              |          |              |              |          |              |                |  |  |  |  |  |

| CI   | aim               | Date     |          |              |              |           |            |              |          |          |  |  |
|--|-------------------|----------|----------|--------------|--------------|-----------|------------|--------------|----------|----------|--|--|
|  |                   | 1        | Τ        | 1            |              | П         | T          | 1            | Τ-       |          |  |  |
| Final  | Original          |          |          |              |              |           |            |              |          |          |  |  |
|  | 101<br>102        |          |          | Ш            |              |           |            |              | L        |          |  |  |
|  | 102               | <u> </u> | _        |              |              | <u> </u>  | <u>L</u>   | _            | <u> </u> |          |  |  |
|  | 103               | 上        | ┖        | <u> </u>     |              |           |            | 1_           | L.       |          |  |  |
|  | 104               |          |          |              | L            |           | _          | _            |          |          |  |  |
|  | 104<br>105        |          | L        |              |              |           |            |              |          |          |  |  |
|  | 106               |          |          |              |              |           |            |              |          |          |  |  |
|  | 107               |          |          |              | L            |           |            |              |          |          |  |  |
|  | 108               |          |          |              |              |           |            | L            | Γ        |          |  |  |
|  | 109               |          |          |              |              | I         |            |              |          | İ        |  |  |
|  | 110               |          |          |              |              |           |            |              |          |          |  |  |
|  | 111               |          |          |              |              |           |            |              |          |          |  |  |
|  | 112               |          |          | П            |              |           |            |              |          |          |  |  |
|  | 111<br>112<br>113 |          |          |              |              |           |            |              |          |          |  |  |
|  | 114<br>115        |          |          |              |              |           |            |              | Π        |          |  |  |
|  | 115               |          |          |              | l            |           |            |              |          | П        |  |  |
| _  | 116               |          |          |              |              |           |            |              |          |          |  |  |
|  | 117               |          |          |              |              |           |            |              |          |          |  |  |
|  | 118               |          |          |              |              |           | -          |              |          |          |  |  |
|  | 119               |          |          |              |              |           |            |              |          |          |  |  |
|  | 120               |          |          |              |              |           |            | Γ            |          |          |  |  |
|  | 120<br>121        |          |          |              |              |           |            |              |          |          |  |  |
|  | 122               |          |          |              |              |           |            |              |          |          |  |  |
|  | 122<br>123<br>124 |          |          |              |              |           |            |              |          |          |  |  |
|  | 124               |          | L        |              |              |           | _          | L            |          |          |  |  |
|  | 125               | _        | <u>_</u> |              |              |           |            |              | _        | Ш        |  |  |
|  | 125<br>126<br>127 |          | <u> </u> | L            |              |           | L          | <u></u>      |          | Ц        |  |  |
| Ш  | 127               | _        |          | _            | L            |           |            |              | _        | Ш        |  |  |
|  | 128<br>129<br>130 | _        |          |              | ļ            | _         | _          |              |          | Щ        |  |  |
|  | 129               | _        |          |              | _            | _         | _          |              | _        | Ш        |  |  |
| <b></b>  | 130               |          |          |              | <u> </u>     | <u> </u>  | ļ          | <u> </u>     |          | Щ        |  |  |
|  | 131<br>132        |          | _        |              |              | _         | _          | <u> </u>     |          | Щ        |  |  |
|  | 132               |          | <u> </u> | <u> </u>     |              | _         | _          | _            |          | _        |  |  |
|  | 133               | <u> </u> | ļ        | <u> </u>     | $\vdash$     |           | <u> </u>   | <u> </u>     | $\vdash$ |          |  |  |
|  | 134               | _        | <u> </u> | <u> </u>     | <u> </u>     | <u> </u>  | <u> </u>   | $\vdash$     | $\vdash$ | <u> </u> |  |  |
| $\vdash$   | 135               | <u> </u> | <u> </u> | <del> </del> |              |           | <u> </u>   | $\vdash$     |          |          |  |  |
|  | 136<br>137        |          | _        | _            | <u> </u>     |           | <u> </u>   | <del> </del> | $\vdash$ |          |  |  |
| <del>                                     </del> | 13/               |          | <u> </u> | $\vdash$     | ⊢            |           | ļ <u>.</u> | ⊢            |          |          |  |  |
| $\vdash \vdash \vdash$                           | 138               | <b>—</b> |          | <u> </u>     | $\vdash$     | $\vdash$  | -          |              | <u> </u> | $\vdash$ |  |  |
| -  | 139<br>140        |          |          | $\vdash$     | <del> </del> |           | -          | $\vdash$     | H        | Н        |  |  |
| $\vdash$   | 141               | -        | -        |              | <u> </u>     | $\vdash$  |            | $\vdash$     | -        | $\dashv$ |  |  |
| $\vdash \vdash \vdash$                           | 142               |          |          |              |              | $\vdash$  |            | -            | -        | $\dashv$ |  |  |
| ┢═┤  | 143               | -        | -        |              | $\vdash$     | H         | _          | $\vdash$     |          | $\vdash$ |  |  |
| <del>                                     </del> | 144               |          |          |              |              | $\vdash$  |            | $\vdash$     | $\vdash$ |          |  |  |
| $\vdash$   | 145               | _        | _        |              |              | $\vdash$  |            | H            |          |          |  |  |
|  | 146               |          |          |              |              |           | -          |              |          | $\dashv$ |  |  |
| <del></del>                                      | 147               |          | $\vdash$ | H            |              | $\exists$ |            | $\vdash$     | -        |          |  |  |
|  | 148               | $\neg$   |          |              |              |           |            | Н            | $\dashv$ |          |  |  |
|  | 149               | _        | Н        |              |              |           |            |              | $\vdash$ | $\neg$   |  |  |
|  | 150               | $\neg$   |          |              |              | $\Box$    | _          |              | $\dashv$ |          |  |  |
|  |                   | _        | _        | _            |              |           |            | _            |          |          |  |  |